

**Abstract**

A method and apparatus for controlling forward gain transmission values of a base station transceiver system includes adjusting forward gain values according to mobile station power control commands as well as to forward gain values commanded by a base station controller. The forward gain values commanded by a base station controller are used as an input to determining what the forward gain value should be and are not implemented exactly as commanded. Thus, a base station transceiver system formed according to the present invention examines the power control commands received by a mobile station relative to a power gain command received by the base station controller. For example, if the power gain command received from the base station controller is responsive to a forward gain value that was transmitted in the past, when a plurality of power control commands were received in the interim, the plurality of power control commands are accounted for as well as the forward gain value commanded by the base station controller when determining the actual forward gain value for the next transmission. Additionally, subsequent power gain commands are also compared to prior power gain commands wherein subsequent adjustments are only made based on the differences between them.

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